

Appendix 2 Critical values for Student's *t*-distribution.

DF = v	α					
	0.10	0.05	0.02	0.01	0.005	0.002
1	6.314	12.706	31.821	63.657	127.321	318.309
2	2.920	4.303	6.965	9.925	14.089	22.327
3	2.353	3.182	4.541	5.841	7.453	10.215
4	2.132	2.776	3.747	4.604	5.598	7.173
5	2.015	2.571	3.365	4.032	4.773	5.893
6	1.943	2.447	3.143	3.707	4.317	5.208
7	1.895	2.365	2.998	3.499	4.029	4.785
8	1.860	2.306	2.896	3.355	3.833	4.501
9	1.833	2.262	2.821	3.250	3.690	4.297
10	1.812	2.228	2.764	3.169	3.581	4.144
11	1.796	2.201	2.718	3.106	3.497	4.025
12	1.782	2.179	2.681	3.055	3.428	3.930
13	1.771	2.160	2.650	3.012	3.372	3.852
14	1.761	2.145	2.624	2.977	3.326	3.787
15	1.753	2.131	2.602	2.947	3.286	3.733
16	1.746	2.120	2.583	2.921	3.252	3.686
17	1.740	2.110	2.567	2.898	3.222	3.646
18	1.734	2.101	2.552	2.878	3.197	3.610
19	1.729	2.093	2.539	2.861	3.174	3.579
20	1.725	2.086	2.528	2.845	3.153	3.552
21	1.721	2.080	2.518	2.831	3.135	3.527
22	1.717	2.074	2.508	2.819	3.119	3.505
23	1.714	2.069	2.500	2.807	3.104	3.485
24	1.711	2.064	2.492	2.797	3.091	3.467
25	1.708	2.060	2.485	2.787	3.078	3.450
26	1.706	2.056	2.479	2.779	3.067	3.435
27	1.703	2.052	2.473	2.771	3.057	3.421
28	1.701	2.048	2.467	2.763	3.047	3.408
29	1.699	2.045	2.462	2.756	3.038	3.396
30	1.697	2.042	2.457	2.750	3.030	3.385
31	1.696	2.040	2.453	2.744	3.022	3.375
32	1.694	2.037	2.449	2.738	3.015	3.365
33	1.692	2.035	2.445	2.733	3.008	3.356
34	1.691	2.032	2.441	2.728	3.002	3.348
35	1.690	2.030	2.438	2.724	2.996	3.340
36	1.688	2.028	2.434	2.719	2.990	3.333
37	1.687	2.026	2.431	2.715	2.985	3.326
38	1.686	2.024	2.429	2.712	2.980	3.319
39	1.685	2.023	2.426	2.708	2.976	3.313
40	1.684	2.021	2.423	2.704	2.971	3.307
41	1.683	2.020	2.421	2.701	2.967	3.301
42	1.682	2.018	2.418	2.698	2.963	3.296
43	1.681	2.017	2.416	2.695	2.959	3.291
44	1.680	2.015	2.414	2.692	2.956	3.286
45	1.679	2.014	2.412	2.690	2.952	3.281
46	1.679	2.013	2.410	2.687	2.949	3.277
47	1.678	2.012	2.408	2.685	2.946	3.273
48	1.677	2.011	2.407	2.682	2.943	3.269
49	1.677	2.010	2.405	2.680	2.940	3.265
50	1.676	2.009	2.403	2.678	2.937	3.261
52	1.675	2.007	2.400	2.674	2.932	3.255
54	1.674	2.005	2.397	2.670	2.927	3.248
56	1.673	2.003	2.395	2.667	2.923	3.242
58	1.672	2.002	2.392	2.663	2.918	3.237
60	1.671	2.000	2.390	2.660	2.915	3.232